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| FGM, PTO-1390 (Rev. 12-2001) | | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | Attorney's Docket Number TIP0015 US |
| TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371 | | | U.S. Application No. (if known, see 37 CFR 1.5) 10/519436 |
| International Application No. PCT/EP2003/050279 | International Filing Date 30 June 2003 | Priority Date Claimed 1 July 2002 | |
| Title of Invention New Mutational Profiles In HIV-1 Reverse Transcriptase Correlated With Phenotypic Drug Resistance | | | |
| Applicant(s) for DO/EO/US Hilde Azijn, Marie-Pierre De Bethune, Johan Hendrika Jozef Vingerhoets | | | |

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☐ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.
4. ☐ The US has been elected by the expiration of 19 months from the priority date (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
 - a. ☒ is attached hereto (required only if not communicated by the International Bureau), as well as the Published Application No. WO 2004/003227 A1
 - b. ☐ has been communicated by the International Bureau.
 - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☐ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
 - a. ☐ is attached hereto.
 - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
 - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
 - b. ☐ have been communicated by the International Bureau.
 - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - d. ☒ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)).
9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)) has been filed in the PCT Request (Rule 4.17 (iv)).
10. ☐ An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Items 11 to 20 below concern document(s) or information included:

11. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☒ A **FIRST** preliminary amendment.
14. ☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
15. ☐ A substitute specification.
16. ☐ A change of power of attorney and/or address letter.
17. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821 - 1.825.
18. ☐ A second copy of the published international application under 35 U.S.C. 154(d)(4).
19. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
20. ☒ Other items or information: Certificate Under 37 CFR 3.73 (b); Power of Attorney; PCT Notification of the Recording of a Change; Return Receipt Postcard & Express Mail Certificate

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| U.S. APPLICATION NO. (if known, see 37 CFR 1.5) <div style="font-size: 1.5em; font-weight: bold;">10/519436</div> | | INTERNATIONAL APPLICATION NO. PCT/EP2003/050279 | | ATTORNEY'S DOCKET NUMBER TIP0015 US | |
| 21. The following fees are submitted: | | | | Applicant use | Office use only |
| <input checked="" type="checkbox"/> a) Basic national fee..... \$300.00 | | | | \$ | |
| <input checked="" type="checkbox"/> b) Examination fee..... \$200.00 | | | | \$ | |
| <input checked="" type="checkbox"/> c) Search fee..... \$500.00 | | | | \$ | |
| TOTAL OF ABOVE CALCULATIONS = \$1000.00 | | | | \$1,000.00 | |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. | | | | | |
| Total Sheets | Extra sheets | Number of each additional 50 or fraction thereof (round up to a whole number) | RATE | | |
| 17 - 100 = | /50 = | | x \$250.00 | \$ | |
| Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)). | | | | \$ | |
| CLAIMS | NUMBER FILED | NUMBER EXTRA | RATE | \$ | |
| Total claims | 10 - 20 = | 0 | x \$50.00 | \$ | |
| Independent claims | 10 - 3 = | 7 | x \$200.00 | \$ 1,400.00 | |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable) | | | + \$360.00 | \$ | |
| TOTAL OF ABOVE CALCULATIONS = | | | | \$ 1,400.00 | |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2. | | | | \$ | |
| SUBTOTAL = | | | | \$ 2,400.00 | |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)). | | | | \$ | |
| TOTAL NATIONAL FEE = | | | | \$ 2,400.00 | |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property | | | | \$ | |
| TOTAL FEES ENCLOSED = | | | | \$ 2,400.00 | |
| Amount to be refunded: | | | | \$ | |
| Amount to be charged | | | | \$2,400.00 | |

a. ☐ A check in the amount of \$ _____ to cover the above fees is enclosed.

b. ☒ Please charge my Deposit Account No. 10-0750/TIP0015US/AGK in the amount of \$ 2,400.00 to cover the above fees. A duplicate copy of this sheet is enclosed.

c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 10-0750. A duplicate copy of this sheet is enclosed.

d. ☐ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:

Philip S. Johnson, Esq.
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 USA

Alana Kriegsman

 SIGNATURE

Alana G. Kriegsman

 NAME

41,747

 REGISTRATION NUMBER

Express Mail Label No. EV 488 942 033 US
Docket No. TIP-0015-US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: AZIJN, Hilde et al.

For: NEW MUTATIONAL PROFILES IN HIV-1 REVERSE TRANSCRIPTASE
CORRELATED WITH PHENOTYPIC DRUG RESISTANCE

Express Mail Certificate

"Express Mail" mailing number: EV 488 942 033 US

Date of Deposit: December 22, 2004

I hereby certify that this entry into the National Phase pursuant to 35 USC 371 contains complete application:

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| <input checked="" type="checkbox"/> | Express Mail Certificate | (1 page) |
| <input checked="" type="checkbox"/> | Return Receipt Postcard | (1 page) |
| <input checked="" type="checkbox"/> | PCT FORM 1390 Transmittal | (2 pages & copy) |
| <input checked="" type="checkbox"/> | Copy of International Application as filed | (17 pages) |
| <input checked="" type="checkbox"/> | Power of Attorney | (1 page) |
| <input checked="" type="checkbox"/> | Certificate under 37 CFR 3.73(b) | (5 pages) |
| <input checked="" type="checkbox"/> | Preliminary Amendment | (6 pages) |
| <input checked="" type="checkbox"/> | PCT Notification of the Recording Of a Change | (1 page) |

is being deposited with the United States Postal Service "Express Mail Post Office to Addressee; service under 37 CFR 1.10 on the date indicated above is addressed to the Mail Stop: PCT, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450..

Laurie Phillips
(Typed or printed name of person mailing paper or fee)

Laurie Phillips
(Signature of person mailing paper or fee)